

1     What is claimed is:

- 2     1. A method for fabricating an anisotropic conductive substrate comprising:
- 3     providing a back holder, the back holder having a surface with a plurality of metal pins;
- 4     forming a liquid compound on the surface of the back holder with the metal pins;
- 5     pressing the liquid compound on the back holder, the liquid compound being reshaped to
- 6         have an upper surface and a lower surface, the thickness between the upper surface and
- 7         the lower surface of the liquid compound is between  $25\ \mu\text{m}$  and  $250\ \mu\text{m}$ , the metal
- 8         pins being deformed into a plurality of electrodes in the liquid compound and each
- 9         electrode has an first end and a lower end exposed from the upper surface and the
- 10         lower surfaces of the liquid compound; and
- 11     removing the back holder so that the liquid compound with the electrodes becomes an
- 12         anisotropic conductive substrate.
- 13     2. The method for fabricating an anisotropic conductive substrate as claimed in claim 1,
- 14         wherein the liquid compound is a negative photoresist.
- 15     3. The method for fabricating an anisotropic conductive substrate as claimed in claim 1,
- 16         wherein the liquid compound is a low K dielectric thermosetting material.
- 17     4. The method for fabricating an anisotropic conductive substrate as claimed in claim 3,
- 18         wherein the liquid compound is cured simultaneously during the pressing step.
- 19     5. The method for fabricating an anisotropic conductive substrate as claimed in claim 1,
- 20         wherein a removable layer is formed on the surface of the back holder in the step of
- 21         providing the back holder.
- 22     6. The method for fabricating an anisotropic conductive substrate as claimed in claim 5,
- 23         wherein the removable layer is a positive photoresist.
- 24     7. The method for fabricating an anisotropic conductive substrate as claimed in claim 1,
- 25         wherein the distribution density of the metal pins is between  $10^3\ \text{mm}^{-2}$  and  $10^8\ \text{mm}^{-2}$  in
- 26         the step of providing the back holder.
- 27     8. The method for fabricating an anisotropic conductive substrate as claimed in claim 1,

- 1 wherein the pitch between the metal pins is from  $0.5\ \mu\text{m}$  to  $30\ \mu\text{m}$ .
- 2 9. The method for fabricating an anisotropic conductive substrate as claimed in claim 1,  
3 further comprising a step of baking the liquid compound prior to the pressing step.
- 4 10. The method for fabricating an anisotropic conductive substrate as claimed in claim 1,  
5 wherein the liquid compound is transparent.
- 6 11. A method for fabricating an anisotropic conductive substrate comprising:  
7 providing a back holder, the back holder having a surface with a plurality of metal pins;  
8 forming a liquid compound on the surface of the back holder with the metal pins;  
9 pressing the liquid compound on the back holder by a top plate and curing the liquid  
10 compound simultaneously, the top plate deforming the metal pins into a plurality of  
11 electrodes in the liquid compound; and  
12 removing the back holder so that the liquid compound with the electrodes becomes an  
13 anisotropic conductive substrate.
- 14 12. The method for fabricating an anisotropic conductive substrate as claimed in claim 11,  
15 wherein the liquid compound is a negative photoresist.
- 16 13. The method for fabricating an anisotropic conductive substrate as claimed in claim 11,  
17 wherein the liquid compound is transparent.
- 18 14. The method for fabricating an anisotropic conductive substrate as claimed in claim 11,  
19 wherein a removable layer is formed between the metal pins and the back holder in the  
20 step of providing the back holder.
- 21 15. The method for fabricating an anisotropic conductive substrate as claimed in claim 14,  
22 wherein the removable layer is a positive photoresist.
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